



**BOEING REALTY CORPORATION
FORMER C-6 FACILITY
LOS ANGELES, CALIFORNIA**

TECHNICAL MEMORANDUM

**SOIL STOCKPILE PROFILING
LOT 8**

To: Mr. Brian Mossman
Boeing Realty Corporation
4900 E. Conant Street, Building 1
Long Beach, California 90808

From: Haley & Aldrich, Inc.

Date: 9 September 2005

Subject: Excess Soil Stockpile Profiling, Lot 8, Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California

Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this technical memorandum to profile excess soil for export from the Harbor Gateway Center to the Boeing Seal Beach Facility.

Approximately 3,000 cubic yards of soil was generated from Lot 8 at the Harbor Gateway Center during construction activities and stockpiled on-site. The soil was derived from the within the top 12 feet of Lot 8 which received closure from the Los Angeles Regional Water Quality Control Board in 2002 (LARWQCB, 2002). This soil is excess to the current Lot 8 construction requirements and cannot be incorporated into the grading plan.

Rather than disposing of the soil, Boeing Realty Corporation (BRC) plans to relocate the soil to the Boeing Seal Beach Facility for use on-site. To evaluate the suitability of the soil to be exported for use at the Seal Beach Facility, three soil samples were collected at random locations approximately 1 foot below the stockpile surface and analyzed by a California-certified laboratory for the following compounds:

- Total petroleum hydrocarbons (TPH) by EPA Method 8015;
- Volatile organic compounds (VOCs) by EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270C;
- Polyaromatic hydrocarbons (PAHs) by EPA Method 8310;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082;
- Metals by EPA Methods 6010B and 7471; and
- Hexavalent chromium by EPA Method 7199.

The laboratory results indicate that VOCs, SVOCs, and PAHs were not detected above laboratory detection limits (Appendix A). Aroclor-1254 was detected at concentrations of 150 and 200 micrograms

per kilogram ($\mu\text{g}/\text{kg}$). The detected concentrations of Aroclor-1254 are below both the federal preliminary remediation goals (PRG) (USEPA, 2004) and California Human Health Screening Levels (CHHSLs) (Cal-EPA, 2005) for non-residential land use. The concentrations are also below the federal residential PRG (USEPA, 2004). Table I summarizes the reported Aroclor-1254 concentrations in the stockpile soil samples, and the applicable PRGs and CHHSLs.

Table I. Summary of Aroclor-1254 Concentrations

Sample Name	Aroclor-1254 Concentration
SPXX_090105_0101	200
SPXX_090105_0102	150
SPXX_090105_0103	ND
PRGs (Aroclor-1254)	
Residential	220
Non-residential	740
CHHSLs (PCBs)	
Residential	89
Non-residential	300

Concentrations reported in $\mu\text{g}/\text{kg}$

ND = Not detected

TPH was detected at concentrations of 16, 80, and 120 milligrams per kilogram (mg/kg) (Appendix A). Although no PRG exists for TPH, two of the three detected concentrations are below 100 mg/kg (common regulatory guidance threshold). Although one sample contained a TPH concentration of 120 mg/kg , no VOCs or SVOCs were detected which are the primary risk-triggering chemicals in TPH; therefore this TPH concentration is not anticipated to be a risk to human health.

Metals were also analyzed and are summarized in Table II. Since background metals concentrations were not available for the Seal Beach Facility, the detected metals concentrations were compared to the Southern California background soil concentrations of metals (Cal-EPA, 1992) and any concentrations that exceeded the maximum background concentration were bolded.

Table II. Summary of Metals Concentrations

Analyte	Sample Name			Southern California Background Concentration		STLC (mg/L)
	SPXX_090105_0101	SPXX_090105_0102	SPXX_090105_0103	Minimum	Maximum	
Aluminum	16,800	16,500	15,400	NA	NA	NA
Arsenic	6.8	6.3	11.8	1.8	15.2	5
Antimony	0.73B	0.61B	0.78B	0.12	1.9	15
Barium	131	118	108	23	560	NA
Chromium	27.3	26.2	32.6	5.8	32.6	5
Beryllium	0.68J	0.61J	0.65J	< 0.1	1.2	0.75
Lead	7.2	6.8	5.3	2.5	189.4	5
Selenium	1.8	1.4	1.5	NA	NA	1
Cobalt	10.7	9.2	8.7	1.6	23.2	80
Copper	23.4	21.3	25.4	3.8	54	25
Molybdenum	0.84B	0.83B	2.0B	0.15	1.4	350
Nickel	20.9	19.2	23.9	3.5	28.2	20
Vanadium	52.2	50.2	57.5	18	84.8	24
Zinc	59.2	58.7	57.4	10.3	247	250
Hexavalent chromium	0.20B	ND	0.23B	NA	NA	5
Mercury	0.039B	0.049	0.033B	0.1	0.6	0.2

Concentrations reported in mg/kg (except STLC)

STLC = soluble threshold limit concentration

mg/L = milligram per liter

ND = Not Detected

NA = Not Applicable

Although the molybdenum concentration exceeds the maximum literature review background value for Southern California in one sample, the detected value is less than the Lot 8 background concentration of 2.7 mg/kg (Haley & Aldrich, 2002) which indicates that it is likely not anthropogenic or a result of former site activities. The detected metals concentrations were also compared to the California Hazardous Waste Criteria. The laboratory results were less than ten times the soluble threshold limit concentration (STLC), a criterion for defining a waste as non-hazardous in California as summarized in Table II above.

Currently no import soil criteria for the Seal Beach Facility has been provided; however, the following import criteria was adopted by Boeing: accept soils with concentrations of organic chemicals less than the residential PRGs, TPH less than 100 mg/kg in two of the three samples, and metals less than the site-specific background concentrations where available or regional background levels. Based on the laboratory analysis of the samples collected from the Lot 8 stockpile, the following observations are summarized:

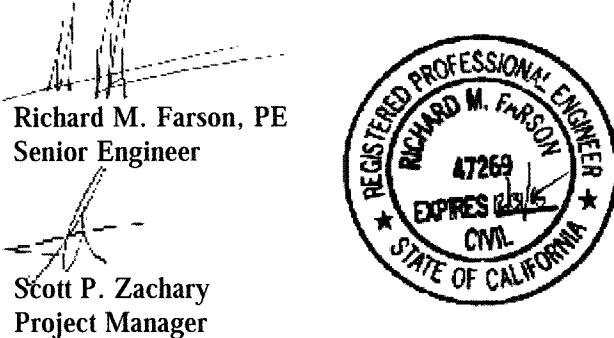
- Metals concentrations are less than regional soil background values with the exception of the one molybdenum detection which was less than the Lot 8 background concentration. The molybdenum

concentration is also within the range of concentrations detected in soil at the Seal Beach Facility (Avocet, 2005).

- The Aroclor-1254 concentrations meet both state non-residential CHHSLs and federal non-residential PRGs and federal residential PRGs. They do not meet state residential CHHSLs.
- TPH is less than 100 mg/kg in two of the three samples and VOC/SVOCs were not detected.
- One sample contained a TPH concentration of 120 mg/kg; however, no VOCs or SVOCs were detected.
- All other organic compounds are below their respective residential PRGs.
- No other indications of impacts were observed.

Given the analytical results and the criteria summarized above, the stockpiled soil and can be exported as non-hazardous soil and meets environmental criteria for placement at the Seal Beach Facility provided that the site is used for non-residential purposes (due to the Aroclor-1254 concentrations).

We appreciate the opportunity to provide services on this project. Please do not hesitate to call if you have any questions or comments.



Attachments:

Appendix A – Laboratory Reports

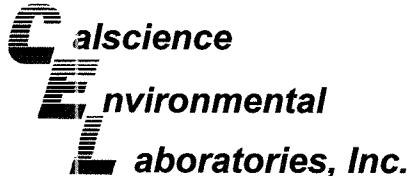
REFERENCES

1. Avocet. 2005. Table of data received from Phil Miller via email, 6 June.
2. Cal-EPA. 1992. Background Levels of Trace Elements in Southern California Soils, Draft Annual Report, California Environmental Protection Agency, Contract No. 89-T0081 by University of California, Riverside, California. June.
3. Cal-EPA. 2005. Use of California Human Health Screening Levels in Evaluation of Contaminated Properties. January.
4. California Code of Regulations (CCR), Title 22, Section 66261.24.
5. Haley & Aldrich. 2002. Technical Memorandum, Site-Specific Background Metals Concentrations, Parcel C, Boeing Realty Corporation, Former C-6 Facility, Los Angeles, California. 4 January.
6. LARWQCB. 2002. No further Action for Shallow Soils, Boeing Realty Corporation, Former C-6 Facility, Parcel C, 19503 Normandie Avenue, Los Angeles. 6 December.
7. USEPA. 2004. Preliminary Remediation Goals, Region 9. October.

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APPENDIX A

Laboratory Reports



September 07, 2005

Diane Suzuki
Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Subject: **Calscience Work Order No.: 05-09-0166**
Client Reference: **E5I020131**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/2/2005 and analyzed in accordance with the attached chain-of-custody.

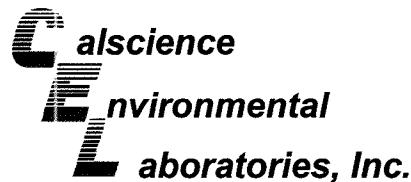
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Ranjit K. G. Clarke".

Calscience Environmental
Laboratories, Inc.
Ranjit Clarke
Project Manager



Analytical Report

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation:
Method:
Units: TPH - Carbon Range mg/kg

Project: E5I020131

Page 1 of 2

Client Sample Number	Lab Sample Number			Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID	
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/02/05	09/03/05	050902B05			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		1		C21-C22	11		1	
C8	ND		1		C23-C24	ND		1	
C9-C10	ND		1		C25-C28	40		1	
C11-C12	0.028		1		C29-C32	ND		1	
C13-C14	0.41		1		C33-C36	7.5		1	
C15-C16	4.4		1		C37-C40	7.0		1	
C17-C18	3.9		1		C41-C44	13		1	
C19-C20	3.8		1		C7-C44 Total	80	5	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	122	62-152							
SPXX-090105-0102	05-09-0166-2	09/01/05	Solid	09/02/05	09/03/05	050902B05			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		1		C21-C22	4.7		1	
C8	ND		1		C23-C24	8.9		1	
C9-C10	ND		1		C25-C28	18		1	
C11-C12	ND		1		C29-C32	36		1	
C13-C14	0.65		1		C33-C36	13		1	
C15-C16	1.0		1		C37-C40	12		1	
C17-C18	2.1		1		C41-C44	23		1	
C19-C20	1.6		1		C7-C44 Total	120	5	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	121	62-152							
SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/02/05	09/03/05	050902B05			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
C7	ND		1		C21-C22	2.0		1	
C8	ND		1		C23-C24	1.3		1	
C9-C10	ND		1		C25-C28	3.8		1	
C11-C12	ND		1		C29-C32	1.7		1	
C13-C14	ND		1		C33-C36	2.6		1	
C15-C16	0.040		1		C37-C40	1.0		1	
C17-C18	0.66		1		C41-C44	2.5		1	
C19-C20	0.32		1		C7-C44 Total	16	5	1	
Surrogates:	REC (%)	Control Limits		Qual					
Decachlorobiphenyl	124	62-152							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 3550B
Method: TPH - Carbon Range
Units: mg/kg

Project: E5I020131

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	098-03-002-4,807	N/A	Solid	09/02/05	09/02/05	050902B05

Parameter	Result	RL	DF	Qual
TPH as Diesel	ND	5.0	1	
Surrogates:	REC (%)	Control		Qual
Decachlorobiphenyl	120	62-152		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 3545
 Method: EPA 8270C
 Units: mg/kg

Project: E5I020131

Page 1 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/06/05	09/06/05	050906L03
Parameter	Result	RL	DF	Qual	Parameter	Result
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND
Aniline	ND	0.50	1		4-Nitrophenol	0.50
Phenol	ND	0.50	1		Dibenzofuran	0.50
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	0.50
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	0.50
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	0.50
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	0.50
Benzyl Alcohol	ND	0.50	1		Fluorene	0.40
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	0.50
2-Methylphenol	ND	0.50	1		Azobenzene	0.50
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	2.5
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	0.50
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	0.50
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	0.50
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	0.50
Isophorone	ND	0.50	1		Pentachlorophenol	2.5
2-Nitrophenol	ND	0.50	1		Phenanthrene	0.40
2,4-Dimethylphenol	ND	0.50	1		Anthracene	0.40
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	0.50
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	0.40
2,4-Dichlorophenol	ND	0.50	1		Benzidine	10
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	0.40
Naphthalene	ND	0.40	1		Pyridine	0.50
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	0.50
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	0.50
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	0.40
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	0.50
1-Methylnaphthalene	ND	0.40	1		Chrysene	0.40
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	0.50
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	0.40
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	0.40
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	0.35
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	0.40
Acenaphthylene	ND	0.40	1		Dibenz (a,h) Anthracene	0.40
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	0.40
Acenaphthene	ND	0.40	1			
Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits
2-Fluorophenol	74	42-120		Phenol-d6	78	46-118
Nitrobenzene-d5	83	42-150		2-Fluorobiphenyl	80	38-134
2,4,6-Tri bromophenol	84	36-132		p-Terphenyl-d14	96	35-167

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 3545
 Method: EPA 8270C
 Units: mg/kg

Project: E5I020131

Page 2 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0102	05-09-0166-2	09/01/05	Solid	09/06/05	09/06/05	050906L03
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND
Aniline	ND	0.50	1		4-Nitrophenol	ND
Phenol	ND	0.50	1		Dibenzofuran	ND
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND
Benzyl Alcohol	ND	0.50	1		Fluorene	ND
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND
2-Methylphenol	ND	0.50	1		Azobenzene	ND
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND
Isophorone	ND	0.50	1		Pentachlorophenol	ND
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND
Naphthalene	ND	0.40	1		Pyridine	ND
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	ND
1-Methylnaphthalene	ND	0.40	1		Chrysene	ND
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	ND
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND
Acenaphthylene	ND	0.40	1		Dibenz (a,h) Anthracene	ND
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND
Acenaphthene	ND	0.40	1			
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>
2-Fluorophenol	73	42-120		Phenol-d6	78	46-118
Nitrobenzene-d5	86	42-150		2-Fluorobiphenyl	80	38-134
2,4,6-Tri bromophenol	83	36-132		p-Terphenyl-d14	98	35-167

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 3545
 Method: EPA 8270C
 Units: mg/kg

Project: E5I020131

Page 3 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID			
SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/06/05	09/06/05	050906L03			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
N-Nitrosodimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND	2.5	1	
Aniline	ND	0.50	1		4-Nitrophenol	ND	0.50	1	
Phenol	ND	0.50	1		Dibenzofuran	ND	0.50	1	
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	ND	0.50	1	
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	ND	0.50	1	
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	ND	0.50	1	
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	ND	0.50	1	
Benzyl Alcohol	ND	0.50	1		Fluorene	ND	0.40	1	
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	ND	0.50	1	
2-Methoxyphenol	ND	0.50	1		Azobenzene	ND	0.50	1	
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	ND	2.5	1	
3/4-Methylphenol	ND	0.50	1		N-Nitrosodiphenylamine	ND	0.50	1	
N-Nitros-o-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	ND	0.50	1	
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	ND	0.50	1	
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	ND	0.50	1	
Isophorone	ND	0.50	1		Pentachlorophenol	ND	2.5	1	
2-Nitrophenol	ND	0.50	1		Phenanthrene	ND	0.40	1	
2,4-Dimethylphenol	ND	0.50	1		Anthracene	ND	0.40	1	
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	ND	0.50	1	
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	ND	0.40	1	
2,4-Dichlorophenol	ND	0.50	1		Benzidine	ND	10	1	
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	ND	0.40	1	
Naphthalene	ND	0.40	1		Pyridine	ND	0.50	1	
4-Chlorocaniline	ND	0.50	1		Butyl Benzyl Phthalate	ND	0.50	1	
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	ND	0.50	1	
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	ND	0.40	1	
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	ND	0.50	1	
1-Methylnaphthalene	ND	0.40	1		Chrysene	ND	0.40	1	
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	ND	0.50	1	
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	ND	0.40	1	
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	ND	0.40	1	
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	ND	0.35	1	
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	ND	0.40	1	
Acenaphthylene	ND	0.40	1		Dibenz (a,h) Anthracene	ND	0.40	1	
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	ND	0.40	1	
Acenaphthene	ND	0.40	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
2-Fluorophenol	82	42-120			Phenol-d6	86	46-118		
Nitrobenzene-d5	96	42-150			2-Fluorobiphenyl	89	38-134		
2,4,6-Tribromophenol	91	36-132			p-Terphenyl-d14	99	35-167		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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BOE-C6-0105063

Analytical Report

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 3545
 Method: EPA 8270C
 Units: mg/kg

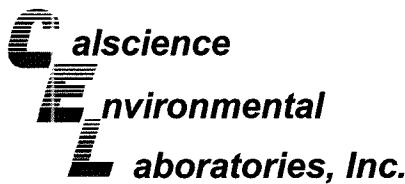
Project: E5I020131

Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	095-01-002-1,330	N/A	Solid	09/06/05	09/06/05	050906L03
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>
N-Nitroso-dimethylamine	ND	0.50	1		2,4-Dinitrophenol	ND
Aniline	ND	0.50	1		4-Nitrophenol	0.50
Phenol	ND	0.50	1		Dibenzofuran	0.50
Bis(2-Chloroethyl) Ether	ND	2.5	1		2,4-Dinitrotoluene	0.50
2-Chlorophenol	ND	0.50	1		2,6-Dinitrotoluene	0.50
1,3-Dichlorobenzene	ND	0.50	1		Diethyl Phthalate	0.50
1,4-Dichlorobenzene	ND	0.50	1		4-Chlorophenyl-Phenyl Ether	0.50
Benzyl Alcohol	ND	0.50	1		Fluorene	0.40
1,2-Dichlorobenzene	ND	0.50	1		4-Nitroaniline	0.50
2-Methylphenol	ND	0.50	1		Azobenzene	0.50
Bis(2-Chloroisopropyl) Ether	ND	0.50	1		4,6-Dinitro-2-Methylphenol	2.5
3/4-Methoxyphenol	ND	0.50	1		N-Nitrosodiphenylamine	0.50
N-Nitroso-di-n-propylamine	ND	0.50	1		2,4,6-Trichlorophenol	0.50
Hexachloroethane	ND	0.50	1		4-Bromophenyl-Phenyl Ether	0.50
Nitrobenzene	ND	2.5	1		Hexachlorobenzene	0.50
Isophorone	ND	0.50	1		Pentachlorophenol	2.5
2-Nitrophenol	ND	0.50	1		Phenanthrene	0.40
2,4-Dimethylphenol	ND	0.50	1		Anthracene	0.40
Benzoic Acid	ND	2.5	1		Di-n-Butyl Phthalate	0.50
Bis(2-Chloroethoxy) Methane	ND	0.50	1		Fluoranthene	0.40
2,4-Dichlorophenol	ND	0.50	1		Benzidine	10
1,2,4-Trichlorobenzene	ND	0.50	1		Pyrene	0.40
Naphthalene	ND	0.40	1		Pyridine	0.50
4-Chloroaniline	ND	0.50	1		Butyl Benzyl Phthalate	0.50
Hexachloro-1,3-Butadiene	ND	0.50	1		3,3'-Dichlorobenzidine	0.50
4-Chloro-3-Methylphenol	ND	0.50	1		Benzo (a) Anthracene	0.40
2-Methylnaphthalene	ND	0.40	1		Bis(2-Ethylhexyl) Phthalate	0.50
1-Methylnaphthalene	ND	0.40	1		Chrysene	0.40
Hexachlorocyclopentadiene	ND	1.5	1		Di-n-Octyl Phthalate	0.50
2,4,5-Trichlorophenol	ND	0.50	1		Benzo (k) Fluoranthene	0.40
2-Chloronaphthalene	ND	0.50	1		Benzo (b) Fluoranthene	0.40
2-Nitroaniline	ND	0.50	1		Benzo (a) Pyrene	0.35
Dimethyl Phthalate	ND	0.50	1		Indeno (1,2,3-c,d) Pyrene	0.40
Acenaphthylene	ND	0.40	1		Dibenzo (a,h) Anthracene	0.40
3-Nitroaniline	ND	0.50	1		Benzo (g,h,i) Perylene	0.40
Acenaphthene	ND	0.40	1			
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>
2-Fluorophenol	69	42-120		Phenol-d6	74	46-118
Nitrobenzene-d5	82	42-150		2-Fluorobiphenyl	77	38-134
2,4,6-Tribromophenol	75	36-132		p-Terphenyl-d14	86	35-167

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Analytical Report

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Project: E5I020131

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID			
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/06/05	09/06/05	050906L05			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	50	1		Benzo (a) Anthracene	ND	50	1	
Acenaphthylene	ND	50	1		Chrysene	ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene	ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene	ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene	ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene	ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene	ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
		Limits							
Decafluorobiphenyl	94	40-160							
SPXX-090105-0102	05-09-0166-2	09/01/05	Solid	09/06/05	09/06/05	050906L05			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	50	1		Benzo (a) Anthracene	ND	50	1	
Acenaphthylene	ND	50	1		Chrysene	ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene	ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene	ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene	ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene	ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene	ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
		Limits							
Decafluorobiphenyl	73	40-160							
SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/06/05	09/06/05	050906L05			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Naphthalene	ND	50	1		Benzo (a) Anthracene	ND	50	1	
Acenaphthylene	ND	50	1		Chrysene	ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene	ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene	ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene	ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene	ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene	ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene	ND	50	1	
Surrogates:	REC (%)	Control		Qual					
		Limits							
Decafluorobiphenyl	57	40-160							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Project: E5I020131

Page 2 of 2

Client Sample Number	Lab Sample Number				Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID	
Method Blank	099-07-002-571				N/A	Solid	09/06/05	09/06/05	050906L05	
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>		<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>
Naphthalene	ND	50	1		Benzo (a) Anthracene		ND	50	1	
Acenaphthylene	ND	50	1		Chrysene		ND	50	1	
Acenaphthene	ND	50	1		Benzo (b) Fluoranthene		ND	50	1	
Fluorene	ND	50	1		Benzo (k) Fluoranthene		ND	50	1	
Phenanthrene	ND	50	1		Benzo (a) Pyrene		ND	50	1	
Anthracene	ND	50	1		Dibenz (a,h) Anthracene		ND	50	1	
Fluoranthene	ND	50	1		Benzo (g,h,i) Perylene		ND	50	1	
Pyrene	ND	50	1		Indeno (1,2,3-c,d) Pyrene		ND	50	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>						
Decafluorobiphenyl	64	40-160								

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

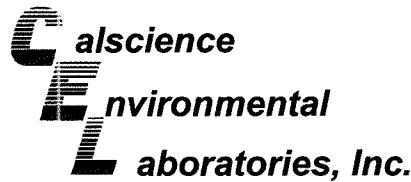
Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 3545
 Method: EPA 8082
 Units: ug/kg

Project: E5I020131

Page 1 of 1

Client Sample Number	Lab Sample Number			Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0101	05-09-0166-1			09/01/05	Solid	09/06/05	09/06/05	050906L06
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1
Aroclor-1221	ND	50	1		Aroclor-1254	200	50	1
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Qual</u>
Decachlorobiphenyl	78	50-130			2,4,5,6-Tetrachloro-m-Xylene	69	50-130	
SPXX-090105-0102	05-09-0166-2			09/01/05	Solid	09/06/05	09/06/05	050906L06
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1
Aroclor-1221	ND	50	1		Aroclor-1254	150	50	1
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Qual</u>
Decachlorobiphenyl	70	50-130			2,4,5,6-Tetrachloro-m-Xylene	64	50-130	
SPXX-090105-0103	05-09-0166-3			09/01/05	Solid	09/06/05	09/06/05	050906L06
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Qual</u>
Decachlorobiphenyl	67	50-130			2,4,5,6-Tetrachloro-m-Xylene	67	50-130	
Method Blank	099-07-009-703			N/A	Solid	09/06/05	09/06/05	050906L06
<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>
Aroclor-1016	ND	50	1		Aroclor-1248	ND	50	1
Aroclor-1221	ND	50	1		Aroclor-1254	ND	50	1
Aroclor-1232	ND	50	1		Aroclor-1260	ND	50	1
Aroclor-1242	ND	50	1		Aroclor-1262	ND	50	1
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control</u>	<u>Qual</u>
Decachlorobiphenyl	68	50-130			2,4,5,6-Tetrachloro-m-Xylene	64	50-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/kg

Project: E5I020131

Page 1 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID			
SPXX-090105-0101	05-09-0166-1	09/01/05	Solid	09/03/05	09/03/05	050903L01			
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butanone	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25			Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
Surrogates:	REC (%)	Control Limits	Qual		Surrogates:	REC (%)	Control Limits	Qual	
Dibromomfluoromethane	108	73-139			1,2-Dichloroethane-d4	107	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	95	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/kg

Project: E5I020131

Page 2 of 4

Client Sample Number	Lab Sample Number			Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID	
SPXX-090105-0102		05-09-0166-2		09/01/05	Solid	09/03/05	09/03/05	050903L01	
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butancne	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromo-chloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromo-methane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromo-fluoromethane	94	73-139			1,2-Dichloroethane-d4	94	73-145		
Toluene-d8	98	90-108			1,4-Bromofluorobenzene	92	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/kg

Project: E5I020131

Page 3 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SPXX-090105-0103	05-09-0166-3	09/01/05	Solid	09/03/05	09/03/05	050903L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	5.0	1	
Benzene	ND	5.0	1		2,2-Dichloropropane	ND	5.0	1	
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND	5.0	1	
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND	5.0	1	
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND	5.0	1	
Bromoform	ND	5.0	1		Ethylbenzene	ND	5.0	1	
Bromomethane	ND	25	1		2-Hexanone	ND	50	1	
2-Butancne	ND	50	1		Isopropylbenzene	ND	5.0	1	
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND	5.0	1	
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND	50	1	
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND	50	1	
Carbon Disulfide	ND	50	1		Naphthalene	ND	50	1	
Carbon Tetrachloride	ND	5.0	1		n-Propylbenzene	ND	5.0	1	
Chlorobenzene	ND	5.0	1		Styrene	ND	5.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	5.0	1	
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND	5.0	1	
Chloromethane	ND	25	1		Tetrachloroethene	ND	5.0	1	
2-Chlorotoluene	ND	5.0	1		Toluene	ND	5.0	1	
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND	10	1	
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND	5.0	1	
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND	5.0	1	
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND	5.0	1	
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1	
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND	5.0	1	
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND	5.0	1	
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND	50	1	
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND	5.0	1	
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND	50	1	
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND	5.0	1	
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND	5.0	1	
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND	5.0	1	
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	95	73-139			1,2-Dichloroethane-d4	95	73-145		
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	93	71-113		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report

Severn Trent Laboratories, Inc.
 1721 South Grand Avenue
 Santa Ana, CA 92705-4808

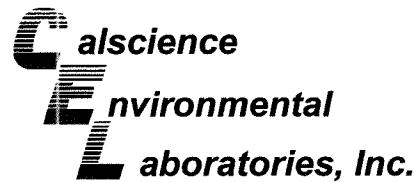
Date Received: 09/02/05
 Work Order No: 05-09-0166
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/kg

Project: E5I020131

Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-005-11,111	N/A	Solid	09/03/05	09/03/05	050903L01
Parameter	Result	RL	DF	Qual	Parameter	Result
Acetone	ND	50	1		1,3-Dichloropropane	ND
Benzene	ND	5.0	1		2,2-Dichloropropane	ND
Bromobenzene	ND	5.0	1		1,1-Dichloropropene	ND
Bromochloromethane	ND	5.0	1		c-1,3-Dichloropropene	ND
Bromodichloromethane	ND	5.0	1		t-1,3-Dichloropropene	ND
Bromoform	ND	5.0	1		Ethylbenzene	ND
Bromomethane	ND	25	1		2-Hexanone	ND
2-Butanone	ND	50	1		Isopropylbenzene	ND
n-Butylbenzene	ND	5.0	1		p-Isopropyltoluene	ND
sec-Butylbenzene	ND	5.0	1		Methylene Chloride	ND
tert-Butylbenzene	ND	5.0	1		4-Methyl-2-Pentanone	ND
Carbon Disulfide	ND	50	1		Naphthalene	ND
Carbon Tetrachloride	ND	5.0	1		p-Propylbenzene	ND
Chlorobenzene	ND	5.0	1		Styrene	ND
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND
Chloroform	ND	5.0	1		1,1,2,2-Tetrachloroethane	ND
Chloromethane	ND	25	1		Tetrachloroethene	ND
2-Chlorotoluene	ND	5.0	1		Toluene	ND
4-Chlorotoluene	ND	5.0	1		1,2,3-Trichlorobenzene	ND
Dibromochloromethane	ND	5.0	1		1,2,4-Trichlorobenzene	ND
1,2-Dibromo-3-Chloropropane	ND	10	1		1,1,1-Trichloroethane	ND
1,2-Dibromoethane	ND	5.0	1		1,1,2-Trichloroethane	ND
Dibromomethane	ND	5.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND
1,2-Dichlorobenzene	ND	5.0	1		Trichloroethene	ND
1,3-Dichlorobenzene	ND	5.0	1		1,2,3-Trichloropropane	ND
1,4-Dichlorobenzene	ND	5.0	1		1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	5.0	1		Trichlorofluoromethane	ND
1,1-Dichloroethane	ND	5.0	1		1,3,5-Trimethylbenzene	ND
1,2-Dichloroethane	ND	5.0	1		Vinyl Acetate	ND
1,1-Dichloroethene	ND	5.0	1		Vinyl Chloride	ND
c-1,2-Dichloroethene	ND	5.0	1		p/m-Xylene	ND
t-1,2-Dichloroethene	ND	5.0	1		o-Xylene	ND
1,2-Dichloropropane	ND	5.0	1		Methyl-t-Butyl Ether (MTBE)	ND
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)
Dibromo fluromethane	109	73-139			1,2-Dichloroethane-d4	106
Toluene-d8	99	90-108			1,4-Bromofluorobenzene	93

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 3550B
Method: DHS LUFT

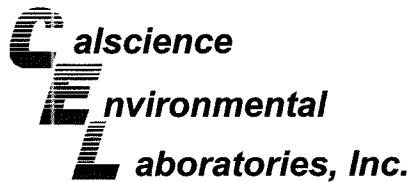
Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-09-0053-11	Solid	GC 15	09/02/05	09/02/05	050902S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	105	104	71-125	1	0-12	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 3545
Method: EPA 8270C

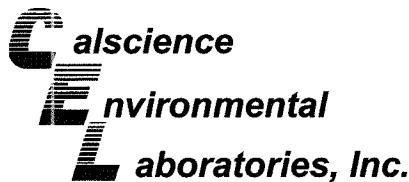
Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SPXX-090105-0102	Solid	GC/MS N	09/06/05	09/06/05	050906S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	82	79	57-123	4	0-16	
2-Chlorophenol	79	74	57-111	7	0-17	
1,4-Dichlorobenzene	74	66	49-127	12	0-20	
N-Nitroso-di-n-propylamine	72	70	54-144	3	0-17	
1,2,4-Trichlorobenzene	66	61	42-132	7	0-20	
4-Chloro-3-Methylphenol	73	73	50-128	1	0-17	
Acenaphthene	70	66	49-133	6	0-18	
4-Nitrophenol	87	92	30-144	6	0-21	
2,4-Dinitrotoluene	70	71	50-128	1	0-18	
Pentachlorophenol	93	91	29-113	2	0-22	
Pyrene	76	78	47-149	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 3545
Method: EPA 8310

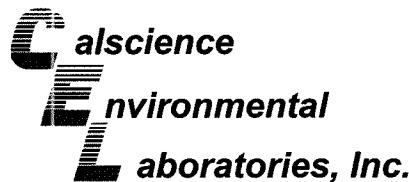
Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SPX-090105-0102	Solid	HPLC 5	09/06/05	09/06/05	050906S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benz (b) Fluoranthene	95	141	40-160	39	0-20	4
Benz (k) Fluoranthene	108	152	40-160	34	0-20	4
Benz (a) Pyrene	108	188	40-160	55	0-20	4,3
Dibenz (a,h) Anthracene	116	159	40-160	32	0-20	4
Benz (g,h,i) Perylene	67	102	40-160	40	0-20	4
Indeno (1,2,3-c,d) Pyrene	94	144	40-160	42	0-20	4

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - Spike/Spike Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: 09/02/05
Work Order No: 05-09-0166
Preparation: EPA 5030B
Method: EPA 8260B

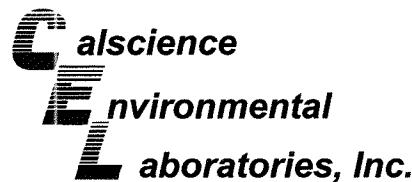
Project E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
SPXX-090105-0101	Solid	GC/MS W	09/03/05	09/06/05	050903S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	91	99	79-115	8	0-13	
Carbon Tetrachloride	96	103	55-139	7	0-15	
Chlorobenzene	94	97	79-115	3	0-17	
1,2-Dichlorobenzene	90	90	63-123	0	0-23	
1,1-Dichloroethene	88	104	69-123	17	0-16	4
Toluene	97	98	79-115	2	0-15	
Trichloroethene	95	106	66-144	11	0-14	
Vinyl Chloride	86	84	60-126	3	0-14	
Methyl-t-Butyl Ether (MTBE)	85	104	68-128	20	0-14	4
Tert-Butyl Alcohol (TBA)	82	102	44-134	21	0-37	
Diisopropyl Ether (DIPE)	92	101	75-123	9	0-12	
Ethyl-t-Butyl Ether (ETBE)	94	102	75-117	8	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	101	79-115	5	0-12	
Ethanol	98	98	42-138	1	0-28	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: N/A
Work Order No: 05-09-0166
Preparation: EPA 3550B
Method: TPH - Carbon Range

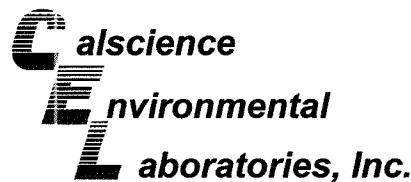
Project: E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-03-002-4,807	Solid	GC 15	09/02/05	09/02/05	050902B05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	108	117	71-119	8	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: N/A
Work Order No: 05-09-0166
Preparation: EPA 3545
Method: EPA 8270C

Project: E5I020131

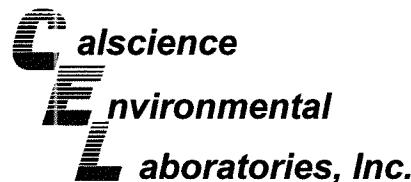
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
095-01-002-1,330	Solid	GC/MS N	09/06/05	09/06/05	050906L03

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Phenol	80	81	59-125	0	0-15	
2-Chlorophenol	79	80	60-114	2	0-15	
1,4-Dichlorobenzene	78	76	61-121	2	0-21	
N-Nitroso-di-n-propylamine	79	79	64-136	1	0-15	
1,2,4-Trichlorobenzene	68	67	58-118	1	0-18	
4-Chloro-3-Methylphenol	71	72	61-121	2	0-14	
Acenaphthene	75	76	59-125	2	0-15	
4-Nitrophenol	93	101	38-152	8	0-31	
2,4-Dinitrotoluene	77	84	51-141	8	0-16	
Pentachlorophenol	90	90	38-116	0	0-20	
Pyrene	94	95	51-141	1	0-14	

RPD - Relative Percent Difference , CL - Control Limit

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BOE-C6-0105077



Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: N/A
Work Order No: 05-09-0166
Preparation: EPA 3545
Method: EPA 8310

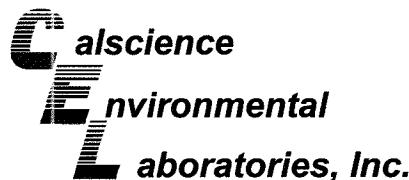
Project: E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-571	Solid	HPLC 5	09/06/05	09/06/05	050906L05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	90	95	40-160	6	0-20	
Benzo (k) Fluoranthene	93	98	40-160	6	0-20	
Benzo (a) Pyrene	91	96	40-160	6	0-20	
Dibenz (a,h) Anthracene	92	100	40-160	9	0-20	
Benzo (g,h,i) Perylene	95	105	40-160	10	0-20	
Indeno (1,2,3-c,d) Pyrene	83	92	40-160	11	0-20	

RPD - Relative Percent Difference , CL - Control Limit

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Quality Control - LCS/LCS Duplicate

Severn Trent Laboratories, Inc.
1721 South Grand Avenue
Santa Ana, CA 92705-4808

Date Received: N/A
Work Order No: 05-09-0166
Preparation: EPA 5030B
Method: EPA 8260B

Project: E5I020131

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-005-11,111	Solid	GC/MS W	09/03/05	09/03/05	050903L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	99	84-114	1	0-7	
Carbon Tetrachloride	97	96	66-132	1	0-12	
Chlorobenzene	103	102	87-111	1	0-7	
1,2-Dichlorobenzene	104	102	79-115	2	0-8	
1,1-Dichloroethene	93	91	73-121	1	0-12	
Toluene	106	105	78-114	1	0-7	
Trichloroethene	100	99	84-114	1	0-8	
Vinyl Chloride	84	83	63-129	1	0-15	
Methyl-t-Butyl Ether (MTBE)	89	94	77-125	5	0-11	
Tert-Butyl Alcohol (TBA)	79	94	47-137	17	0-27	
Diisopropyl Ether (DIPE)	100	99	76-130	1	0-8	
Ethyl-t-Butyl Ether (ETBE)	99	99	76-124	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	105	82-118	1	0-11	
Ethanol	86	95	59-131	10	0-21	

RPD - Relative Percent Difference , CL - Control Limit

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BOE-C6-0105079

Work Order Number: 05-09-0166

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

**Chain of
Custody Record**

SEVERN
TRENT **STL**
Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client STL Los Angeles	Project Manager DIANE SUZUKI	Date 09.02.05	Chain of Custody Number 216654
Address 1721 S Grand Ave	Telephone Number (Area Code)/Fax Number (714) 892-258-8610X325	Lab Number	
City Santa Ana	State CA	Zip Code 92705	Site Contact Lab Contact

Project Name and Location (State)	Carrier/Waybill Number	Analysis (Attach list if more space is needed)
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Contract/Purchase Order/Quote No. E51020131	Matrix	Containers & Preservatives	Special Instructions/ Conditions of Receipt
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Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	All	Aqueous	Sed.	Soil	Unpres.	H ₂ SO ₄	HNO ₃	HCl	NaOH	ZnAc ₂	NaOH	TPH CC	CC6-40+	
SPXX-090105-0101	09.01.05	1135		X								X	X	X	X	
SPXX-090105-0102		1140		X								X	X	X	X	
SPXX-090105-0103		1145		X								X	X	X	X	

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

Turn Around Time Required **TUESDAY**

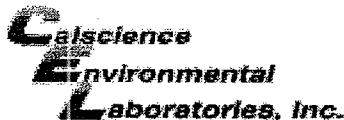
24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By **Beth Riley** Date **9/2/05** Time **5:55** 1. Received By **Jeanne Cox** Date **9/2/05** Time **17:55**

2. Relinquished By _____ Date _____ Time _____ 2. Received By _____ Date _____ Time _____

3. Relinquished By _____ Date _____ Time _____ 3. Received By _____ Date _____ Time _____

Comments



WORK ORDER #:

05 - 09 - 0166

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: STL

DATE: 9/2/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
 Chilled, cooler without temperature blank.
 Chilled and placed in cooler with wet ice.
 Ambient and placed in cooler with wet ice.
 Ambient temperature.
 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- °C Temperature blank.
3.6 °C IR thermometer.
 Ambient temperature.

Initial:

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact): _____ Not Applicable (N/A): _____

Initial:

SAMPLE CONDITION:

Yes _____ No _____ N/A _____

- Chain-Of-Custody document(s) received with samples.....
- Sample container label(s) consistent with custody papers.....
- Sample container(s) intact and good condition.....
- Correct containers for analyses requested.....
- Proper preservation noted on sample label(s).....
- VOA vial(s) free of headspace.....
- Tedlar bag(s) free of condensation.....

Initial:

COMMENTS:

EXECUTIVE SUMMARY - Detection Highlights

E5I020131

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
SPXX_090105_0101 09/01/05 11:35 001				
Mercury	0.039 B	0.10	mg/kg	SW846 7471A
Aluminum	16800	20.0	mg/kg	SW846 6010B
Arsenic	6.8	1.0	mg/kg	SW846 6010B
Antimony	0.73 B	6.0	mg/kg	SW846 6010B
Barium	131	2.0	mg/kg	SW846 6010B
Chromium	27.3	1.0	mg/kg	SW846 6010B
Beryllium	0.68 J	0.50	mg/kg	SW846 6010B
Lead	7.2	0.50	mg/kg	SW846 6010B
Selenium	1.8	0.50	mg/kg	SW846 6010B
Cobalt	10.7	5.0	mg/kg	SW846 6010B
Copper	23.4	2.5	mg/kg	SW846 6010B
Molybdenum	0.84 B	4.0	mg/kg	SW846 6010B
Nickel	20.9	4.0	mg/kg	SW846 6010B
Vanadium	52.2	5.0	mg/kg	SW846 6010B
Zinc	59.2	2.0	mg/kg	SW846 6010B
Hexavalent Chromium	0.20 B	0.40	mg/kg	SW846 7199
SPXX_090105_0102 09/01/05 11:40 002				
Mercury	0.049 B	0.10	mg/kg	SW846 7471A
Aluminum	16500	20.0	mg/kg	SW846 6010B
Arsenic	6.3	1.0	mg/kg	SW846 6010B
Antimony	0.61 B	6.0	mg/kg	SW846 6010B
Barium	118	2.0	mg/kg	SW846 6010B
Chromium	26.2	1.0	mg/kg	SW846 6010B
Beryllium	0.61 J	0.50	mg/kg	SW846 6010B
Lead	6.8	0.50	mg/kg	SW846 6010B
Selenium	1.4	0.50	mg/kg	SW846 6010B
Cobalt	9.2	5.0	mg/kg	SW846 6010B
Copper	21.6	2.5	mg/kg	SW846 6010B
Molybdenum	0.83 B	4.0	mg/kg	SW846 6010B
Nickel	19.2	4.0	mg/kg	SW846 6010B
Vanadium	50.2	5.0	mg/kg	SW846 6010B
Zinc	58.7	2.0	mg/kg	SW846 6010B
SPXX_090105_0103 09/01/05 11:45 003				
Mercury	0.033 B	0.10	mg/kg	SW846 7471A
Aluminum	15400	20.0	mg/kg	SW846 6010B
Arsenic	11.8	1.0	mg/kg	SW846 6010B
Antimony	0.78 B	6.0	mg/kg	SW846 6010B
Barium	108	2.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E5I020131

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SPXX_090105_0103 09/01/05 11:45 003				
Chromium	32.6	1.0	mg/kg	SW846 6010B
Beryllium	0.65 J	0.50	mg/kg	SW846 6010B
Lead	5.3	0.50	mg/kg	SW846 6010B
Selenium	1.5	0.50	mg/kg	SW846 6010B
Cobalt	8.7	5.0	mg/kg	SW846 6010B
Copper	25.4	2.5	mg/kg	SW846 6010B
Molybdenum	2.0 B	4.0	mg/kg	SW846 6010B
Nickel	23.9	4.0	mg/kg	SW846 6010B
Vanadium	57.5	5.0	mg/kg	SW846 6010B
Zinc	57.4	2.0	mg/kg	SW846 6010B
Hexavalent Chromium	0.23 B	0.40	mg/kg	SW846 7199

METHODS SUMMARY

E5I020131

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Hexavalent Chromium	SW846 7199	
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	SW846 3050B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

ESI020131

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
HJTW1	001	SPXX_090105_0101	09/01/05	11:35
HJTXC	002	SPXX_090105_0102	09/01/05	11:40
HJTXD	003	SPXX_090105_0103	09/01/05	11:45

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0101

TOTAL Metals

Lot-Sample #....: E5I020131-001 Date Sampled....: 09/01/05 11:35 Date Received...: 09/01/05 14:50				Matrix.....: SO	
PARAMETER	RESULT	REPORTING LIMIT	UNITS	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....: 5245202					
Aluminum	16800	20.0	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 8.0
Arsenic	6.8	1.0	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.40
Antimony	0.73 B	6.0	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.60
Barium	131	2.0	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.10
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.080
Chromium	27.3	1.0	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.20
Beryllium	0.68 J	0.50	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.060
Lead	7.2	0.50	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.30
Selenium	1.8	0.50	mg/kg	SW846 6010B	09/02/05
		Dilution Factor: 1		Analysis Time...: 22:05	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.40

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0101

TOTAL Metals

Lot-Sample #....: E5I020131-001

Matrix.....: SO

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Silver	ND	1.0	mg/kg		SW846 6010B	09/02/05	HJTW11AT
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 0.10	
Cobalt	10.7	5.0	mg/kg		SW846 6010B	09/02/05	HJTW11AU
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 0.20	
Copper	23.4	2.5	mg/kg		SW846 6010B	09/02/05	HJTW11AV
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 0.40	
Molybdenum	0.84 B	4.0	mg/kg		SW846 6010B	09/02/05	HJTW11AW
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 0.30	
Nickel	20.9	4.0	mg/kg		SW846 6010B	09/02/05	HJTW11AX
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 0.30	
Thallium	ND	1.0	mg/kg		SW846 6010B	09/02/05	HJTW11AO
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 0.50	
Vanadium	52.2	5.0	mg/kg		SW846 6010B	09/02/05	HJTW11A1
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 0.10	
Zinc	59.2	2.0	mg/kg		SW846 6010B	09/02/05	HJTW11A2
		Dilution Factor: 1			Analysis Time...: 22:05	Analyst ID.....: 021088	
		Instrument ID...: M01			MS Run #.....: 5245301	MDL.....: 1.0	
Prep Batch #...: 5245251							
Mercury	0.039 B	0.10	mg/kg		SW846 7471A	09/06/05	HJTW11A3
		Dilution Factor: 1			Analysis Time...: 15:23	Analyst ID.....: 000023	
		Instrument ID...: M04			MS Run #.....: 5249259	MDL.....: 0.020	

NOTE(S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0101

General Chemistry

**Lot-Sample #....: E5I020131-001 Work Order #....: HJTW1 Matrix.....: SO
Date Sampled...: 09/01/05 11:35 Date Received...: 09/01/05 14:50**

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Hexavalent Chromium	0.20 B	0.40	mg/kg	SW846 7199	09/02/05	5245157
	Dilution Factor: 1			Analysis Time...: 10:55	Analyst ID.....: 000022	
	Instrument ID...: W18			MS Run #.....: 5245099	MDL.....: 0.20	

NOTE (S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0102

TOTAL Metals

Lot-Sample #....:	E5I020131-002			Matrix.....:	SO
Date Sampled....:	09/01/05 11:40			Date Received...:	09/01/05 14:50
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE
Prep Batch #....:	5245202				WORK ORDER #
Aluminum	16500	20.0	mg/kg	SW846 6010B	09/02/05 HJTXC1AN
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 8.0
Arsenic	6.3	1.0	mg/kg	SW846 6010B	09/02/05 HJTXC1AP
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.40
Antimony	0.61 B	6.0	mg/kg	SW846 6010B	09/02/05 HJTXC1AQ
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.60
Barium	118	2.0	mg/kg	SW846 6010B	09/02/05 HJTXC1AR
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.10
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/02/05 HJTXC1AT
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.080
Chromium	26.2	1.0	mg/kg	SW846 6010B	09/02/05 HJTXC1AU
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.20
Beryllium	0.61 J	0.50	mg/kg	SW846 6010B	09/02/05 HJTXC1AV
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.060
Lead	6.8	0.50	mg/kg	SW846 6010B	09/02/05 HJTXC1AW
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.30
Selenium	1.4	0.50	mg/kg	SW846 6010B	09/02/05 HJTXC1AX
		Dilution Factor: 1		Analysis Time...: 23:00	Analyst ID.....: 021088
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.40

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Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0102

TOTAL Metals

Lot-Sample #...: E5I020131-002

Matrix.....: SO

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS				
Silver	ND	1.0	mg/kg		SW846 6010B	09/02/05	HJTXC1A0
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.10
Cobalt	9.2	5.0	mg/kg		SW846 6010B	09/02/05	HJTXC1A1
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.20
Copper	21.6	2.5	mg/kg		SW846 6010B	09/02/05	HJTXC1A2
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.40
Molybdenum	0.83 B	4.0	mg/kg		SW846 6010B	09/02/05	HJTXC1A3
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.30
Nickel	19.2	4.0	mg/kg		SW846 6010B	09/02/05	HJTXC1A4
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.30
Thallium	ND	1.0	mg/kg		SW846 6010B	09/02/05	HJTXC1AA
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.50
Vanadium	50.2	5.0	mg/kg		SW846 6010B	09/02/05	HJTXC1AC
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.10
Zinc	58.7	2.0	mg/kg		SW846 6010B	09/02/05	HJTXC1AD
		Dilution Factor: 1			Analysis Time...: 23:00		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 1.0
Prep Batch #...: 5245251							
Mercury	0.049 B	0.10	mg/kg		SW846 7471A	09/06/05	HJTXC1AE
		Dilution Factor: 1			Analysis Time...: 15:28		Analyst ID.....: 000023
		Instrument ID...: M04			MS Run #.....: 5249259		MDL.....: 0.020

NOTE (S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0102

General Chemistry

**Lot-Sample #....: E5I020131-002 Work Order #....: HJTXC Matrix.....: SO
Date Sampled...: 09/01/05 11:40 Date Received..: 09/01/05 14:50**

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Hexavalent Chromium	ND	0.40	mg/kg	SW846 7199	09/02/05	5245157
	Dilution Factor: 1			Analysis Time...: 12:29	Analyst ID.....: 0000229	
	Instrument ID...: W18			MS Run #.....: 5245099	MDL.....: 0.20	

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0103

TOTAL Metals

Lot-Sample #...:	E5I020131-003			Matrix.....:	SO	
Date Sampled...:	09/01/05 11:45			Date Received...:	09/01/05 14:50	
PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #...:	5245202					
Aluminum	15400	20.0	mg/kg	SW846 6010B	09/02/05	HJTXD1AN
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 8.0	
Arsenic	11.8	1.0	mg/kg	SW846 6010B	09/02/05	HJTXD1AP
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.40	
Antimony	0.78 B	6.0	mg/kg	SW846 6010B	09/02/05	HJTXD1AQ
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.60	
Barium	108	2.0	mg/kg	SW846 6010B	09/02/05	HJTXD1AR
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.10	
Cadmium	ND	0.50	mg/kg	SW846 6010B	09/02/05	HJTXD1AT
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.080	
Chromium	32.6	1.0	mg/kg	SW846 6010B	09/02/05	HJTXD1AU
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.20	
Beryllium	0.65 J	0.50	mg/kg	SW846 6010B	09/02/05	HJTXD1AV
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.060	
Lead	5.3	0.50	mg/kg	SW846 6010B	09/02/05	HJTXD1AW
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.30	
Selenium	1.5	0.50	mg/kg	SW846 6010B	09/02/05	HJTXD1AX
		Dilution Factor: 1		Analysis Time...: 23:07	Analyst ID.....: 021088	
		Instrument ID...: M01		MS Run #.....: 5245301	MDL.....: 0.40	

(Continued on next page)

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0103

TOTAL Metals

Lot-Sample #...: E5I020131-003

Matrix.....: SO

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS				
Silver	ND	1.0	mg/kg		SW846 6010B	09/02/05	HJTXD1A0
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.10
Cobalt	8.7	5.0	mg/kg		SW846 6010B	09/02/05	HJTXD1A1
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.20
Copper	25.4	2.5	mg/kg		SW846 6010B	09/02/05	HJTXD1A2
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.40
Molybdenum	2.0 B	4.0	mg/kg		SW846 6010B	09/02/05	HJTXD1A3
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.30
Nickel	23.9	4.0	mg/kg		SW846 6010B	09/02/05	HJTXD1A4
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.30
Thallium	ND	1.0	mg/kg		SW846 6010B	09/02/05	HJTXD1AA
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.50
Vanadium	57.5	5.0	mg/kg		SW846 6010B	09/02/05	HJTXD1AC
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 0.10
Zinc	57.4	2.0	mg/kg		SW846 6010B	09/02/05	HJTXD1AD
		Dilution Factor: 1			Analysis Time...: 23:07		Analyst ID.....: 021088
		Instrument ID...: M01			MS Run #.....: 5245301		MDL.....: 1.0
Prep Batch #...:	5245251						
Mercury	0.033 B	0.10	mg/kg		SW846 7471A	09/06/05	HJTXD1AE
		Dilution Factor: 1			Analysis Time...: 15:30		Analyst ID.....: 000023
		Instrument ID...: M04			MS Run #.....: 5249259		MDL.....: 0.020

NOTE (S) :

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Haley & Aldrich Inc.

Client Sample ID: SPXX_090105_0103

General Chemistry

Lot-Sample #....: E5I020131-003 Work Order #....: HJTXD Matrix.....: SO
Date Sampled...: 09/01/05 11:45 Date Received...: 09/01/05 14:50

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Hexavalent Chromium	0.23 B	0.40	mg/kg	SW846 7199	09/02/05	5245157
		Dilution Factor: 1		Analysis Time...: 12:48	Analyst ID.....: 0000229	
		Instrument ID...: W18		MS Run #.....: 5245099	MDL.....: 0.20	

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

E5I020131

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SO	SW846 7471A		5245251	5249259
	SO	SW846 6010B		5245202	5245301
	SO	SW846 7199		5245157	5245099
002	SO	SW846 7471A		5245251	5249259
	SO	SW846 6010B		5245202	5245301
	SO	SW846 7199		5245157	5245099
003	SO	SW846 7471A		5245251	5249259
	SO	SW846 6010B		5245202	5245301
	SO	SW846 7199		5245157	5245099

METHOD BLANK REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
MB Lot-Sample #: E5I020000-202 Prep Batch #....: 5245202							
Aluminum	ND	20.0	mg/kg	SW846 6010B		09/02/05	HJT6V1CD
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Arsenic	ND	1.0	mg/kg	SW846 6010B		09/02/05	HJT6V1AA
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Antimony	ND	6.0	mg/kg	SW846 6010B		09/02/05	HJT6V1AC
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Barium	ND	2.0	mg/kg	SW846 6010B		09/02/05	HJT6V1AD
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Cadmium	ND	0.50	mg/kg	SW846 6010B		09/02/05	HJT6V1AE
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Chromium	ND	1.0	mg/kg	SW846 6010B		09/02/05	HJT6V1AF
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Beryllium	0.20 B	0.50	mg/kg	SW846 6010B		09/02/05	HJT6V1AG
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Lead	ND	0.50	mg/kg	SW846 6010B		09/02/05	HJT6V1AH
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Selenium	ND	0.50	mg/kg	SW846 6010B		09/02/05	HJT6V1AJ
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Silver	ND	1.0	mg/kg	SW846 6010B		09/02/05	HJT6V1AK
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	
Cobalt	ND	5.0	mg/kg	SW846 6010B		09/02/05	HJT6V1AL
		Dilution Factor: 1					
		Analysis Time...: 21:47		Analyst ID.....: 021088		Instrument ID...: M01	

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: E5I020131

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Copper	ND	2.5	mg/kg		SW846 6010B	09/02/05	HJT6V1AM
		Dilution Factor: 1					
		Analysis Time...: 21:47			Analyst ID.....: 021088		Instrument ID...: M01
Molybdenum	ND	4.0	mg/kg		SW846 6010B	09/02/05	HJT6V1AN
		Dilution Factor: 1					
		Analysis Time...: 21:47			Analyst ID.....: 021088		Instrument ID...: M01
Nickel	ND	4.0	mg/kg		SW846 6010B	09/02/05	HJT6V1AP
		Dilution Factor: 1					
		Analysis Time...: 21:47			Analyst ID.....: 021088		Instrument ID...: M01
Thallium	ND	1.0	mg/kg		SW846 6010B	09/02/05	HJT6V1AQ
		Dilution Factor: 1					
		Analysis Time...: 21:47			Analyst ID.....: 021088		Instrument ID...: M01
Vanadium	ND	5.0	mg/kg		SW846 6010B	09/02/05	HJT6V1AR
		Dilution Factor: 1					
		Analysis Time...: 21:47			Analyst ID.....: 021088		Instrument ID...: M01
Zinc	ND	2.0	mg/kg		SW846 6010B	09/02/05	HJT6V1AT
		Dilution Factor: 1					
		Analysis Time...: 21:47			Analyst ID.....: 021088		Instrument ID...: M01

MB Lot-Sample #: E5I020000-251 Prep Batch #: 5245251

Mercury	ND	0.10	mg/kg	SW846 7471A	09/06/05	HJVJX1AA
		Dilution Factor: 1				
		Analysis Time...: 15:19		Analyst ID.....: 000023		Instrument ID...: M04

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: E5I020131

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	PREP
		LIMIT	UNITS	ANALYSIS DATE			
Hexavalent Chromium	ND	0.40	mg/kg	SW846 7199	09/02/05	5245157	
		Dilution Factor:	1				
		Analysis Time...:	10:36	Analyst ID.....: 000022	Instrument ID..: W18		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: E5I020000-202			Prep Batch #....: 5245202		
Arsenic	103	(75 - 115)	SW846 6010B	09/02/05	HJT6V1AU
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Aluminum	84	(70 - 115)	SW846 6010B	09/02/05	HJT6V1CE
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Antimony	95	(70 - 115)	SW846 6010B	09/02/05	HJT6V1AV
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Barium	100	(80 - 115)	SW846 6010B	09/02/05	HJT6V1AW
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Cadmium	97	(80 - 120)	SW846 6010B	09/02/05	HJT6V1AX
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Chromium	100	(85 - 120)	SW846 6010B	09/02/05	HJT6V1A0
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Beryllium	105	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A1
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Lead	99	(75 - 115)	SW846 6010B	09/02/05	HJT6V1A2
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Selenium	96	(70 - 110)	SW846 6010B	09/02/05	HJT6V1A3
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			
Silver	98	(75 - 120)	SW846 6010B	09/02/05	HJT6V1A4
		Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088
		Instrument ID...: M01			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E5I020131	Matrix.....: SOLID																																																																																																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">PARAMETER</th> <th>PERCENT</th> <th>RECOVERY</th> <th>PREPARATION-</th> <th></th> </tr> <tr> <th>RECOVERY</th> <th>LIMITS</th> <th>METHOD</th> <th>ANALYSIS DATE</th> <th>WORK ORDER #</th> </tr> </thead> <tbody> <tr> <td>Cobalt</td> <td>98</td> <td>(80 - 120)</td> <td>SW846 6010B</td> <td>09/02/05</td> <td>HJT6V1A5</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 21:52</td> <td></td> <td>Analyst ID.....: 021088</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Copper</td> <td>103</td> <td>(80 - 120)</td> <td>SW846 6010B</td> <td>09/02/05</td> <td>HJT6V1A6</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 21:52</td> <td></td> <td>Analyst ID.....: 021088</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Molybdenum</td> <td>102</td> <td>(80 - 120)</td> <td>SW846 6010B</td> <td>09/02/05</td> <td>HJT6V1A7</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 21:52</td> <td></td> <td>Analyst ID.....: 021088</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nickel</td> <td>98</td> <td>(80 - 120)</td> <td>SW846 6010B</td> <td>09/02/05</td> <td>HJT6V1A8</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 21:52</td> <td></td> <td>Analyst ID.....: 021088</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Thallium</td> <td>91</td> <td>(70 - 120)</td> <td>SW846 6010B</td> <td>09/02/05</td> <td>HJT6V1A9</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 21:52</td> <td></td> <td>Analyst ID.....: 021088</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Vanadium</td> <td>97</td> <td>(80 - 120)</td> <td>SW846 6010B</td> <td>09/02/05</td> <td>HJT6V1CA</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 21:52</td> <td></td> <td>Analyst ID.....: 021088</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M01</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Zinc</td> <td>102</td> <td>(80 - 120)</td> <td>SW846 6010B</td> <td>09/02/05</td> <td>HJT6V1CC</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 21:52</td> <td></td> <td>Analyst ID.....: 021088</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M01</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5">LCS Lot-Sample#: E5I020000-251 Prep Batch #....: 5245251</td> <td></td> </tr> <tr> <td>Mercury</td> <td>98</td> <td>(80 - 115)</td> <td>SW846 7471A</td> <td>09/06/05</td> <td>HJVJX1AC</td> </tr> <tr> <td></td> <td></td> <td>Dilution Factor: 1</td> <td>Analysis Time...: 15:21</td> <td></td> <td>Analyst ID.....: 000023</td> </tr> <tr> <td></td> <td></td> <td>Instrument ID...: M04</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					PARAMETER	PERCENT	RECOVERY	PREPARATION-		RECOVERY	LIMITS	METHOD	ANALYSIS DATE	WORK ORDER #	Cobalt	98	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A5			Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088			Instrument ID...: M01				Copper	103	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A6			Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088			Instrument ID...: M01				Molybdenum	102	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A7			Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088			Instrument ID...: M01				Nickel	98	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A8			Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088			Instrument ID...: M01				Thallium	91	(70 - 120)	SW846 6010B	09/02/05	HJT6V1A9			Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088			Instrument ID...: M01				Vanadium	97	(80 - 120)	SW846 6010B	09/02/05	HJT6V1CA			Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088			Instrument ID...: M01				Zinc	102	(80 - 120)	SW846 6010B	09/02/05	HJT6V1CC			Dilution Factor: 1	Analysis Time...: 21:52		Analyst ID.....: 021088			Instrument ID...: M01				LCS Lot-Sample#: E5I020000-251 Prep Batch #....: 5245251						Mercury	98	(80 - 115)	SW846 7471A	09/06/05	HJVJX1AC			Dilution Factor: 1	Analysis Time...: 15:21		Analyst ID.....: 000023			Instrument ID...: M04			
PARAMETER	PERCENT	RECOVERY	PREPARATION-																																																																																																																																																																	
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Nickel	98	(80 - 120)	SW846 6010B	09/02/05	HJT6V1A8																																																																																																																																																															
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Thallium	91	(70 - 120)	SW846 6010B	09/02/05	HJT6V1A9																																																																																																																																																															
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Zinc	102	(80 - 120)	SW846 6010B	09/02/05	HJT6V1CC																																																																																																																																																															
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LCS Lot-Sample#: E5I020000-251 Prep Batch #....: 5245251																																																																																																																																																																				
Mercury	98	(80 - 115)	SW846 7471A	09/06/05	HJVJX1AC																																																																																																																																																															
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NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SOLID

PARAMETER	SPIKE	MEASURED	PERCNT		PREPARATION-	WORK	
	AMOUNT	AMOUNT	UNITS	RECVRY			
LCS Lot-Sample#: E5I020000-202 Prep Batch #....: 5245202							
Arsenic	200	206	mg/kg	103	SW846 6010B	09/02/05	HJT6V1AU
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Aluminum	200	169	mg/kg	84	SW846 6010B	09/02/05	HJT6V1CE
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Antimony	50.0	47.5	mg/kg	95	SW846 6010B	09/02/05	HJT6V1AV
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Barium	200	201	mg/kg	100	SW846 6010B	09/02/05	HJT6V1AW
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Cadmium	5.00	4.87	mg/kg	97	SW846 6010B	09/02/05	HJT6V1AX
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Chromium	20.0	19.9	mg/kg	100	SW846 6010B	09/02/05	HJT6V1A0
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Beryllium	5.00	5.23	mg/kg	105	SW846 6010B	09/02/05	HJT6V1A1
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Lead	50.0	49.5	mg/kg	99	SW846 6010B	09/02/05	HJT6V1A2
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Selenium	200	191	mg/kg	96	SW846 6010B	09/02/05	HJT6V1A3
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Silver	5.00	4.91	mg/kg	98	SW846 6010B	09/02/05	HJT6V1A4
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SOLID

PARAMETER	SPIKE	MEASURED	PERCNT		METHOD	PREPARATION-	WORK
	AMOUNT	AMOUNT	UNITS	RECVRY		ANALYSIS DATE	ORDER #
Cobalt	50.0	49.1	mg/kg	98	SW846 6010B	09/02/05	HJT6V1A5
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Copper	25.0	25.8	mg/kg	103	SW846 6010B	09/02/05	HJT6V1A6
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Molybdenum	100	102	mg/kg	102	SW846 6010B	09/02/05	HJT6V1A7
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Nickel	50.0	48.8	mg/kg	98	SW846 6010B	09/02/05	HJT6V1A8
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Thallium	200	182	mg/kg	91	SW846 6010B	09/02/05	HJT6V1A9
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Vanadium	50.0	48.5	mg/kg	97	SW846 6010B	09/02/05	HJT6V1CA
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
Zinc	50.0	51.2	mg/kg	102	SW846 6010B	09/02/05	HJT6V1CC
			Dilution Factor: 1		Analysis Time...: 21:52		Analyst ID.....: 021088
			Instrument ID...: M01				
LCS Lot-Sample#: E5I020000-251 Prep Batch #....: 5245251							
Mercury	0.833	0.820	mg/kg	98	SW846 7471A	09/06/05	HJVJX1AC
			Dilution Factor: 1		Analysis Time...: 15:21		Analyst ID.....: 000023
			Instrument ID...: M04				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: E5I020131

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Hexavalent Chromium		Work Order #: HJT1R1AC	LCS Lot-Sample#: E5I020000-157		
	103	(80 - 120)	SW846 7199	09/02/05	5245157
		Dilution Factor: 1	Analysis Time...: 10:18	Analyst ID.....: 000022	
		Instrument ID...: W18			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #....: E5I020131

Matrix.....: SOLID

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>	<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Hexavalent Chromium				Work Order #:	HJT1R1AC	LCS	Lot-Sample#:	E5I020000-157	
	40.0	41.1	mg/kg	103	SW846 7199			09/02/05	5245157
			Dilution Factor:	1		Analysis Time...	10:18		Analyst ID.....: 000022
			Instrument ID...	W18					

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SO

Date Sampled....: 09/01/05 11:35 **Date Received...:** 09/01/05 14:50

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
MS Lot-Sample #: E5I020131-001 Prep Batch #....: 5245202						
Aluminum	NC	(70 - 115)		SW846 6010B	09/02/05	HJTW11CE
	NC	(70 - 115)	(0-25)	SW846 6010B	09/02/05	HJTW11CF
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Arsenic	97	(75 - 115)		SW846 6010B	09/02/05	HJTW11CG
	97	(75 - 115) 0.15	(0-25)	SW846 6010B	09/02/05	HJTW11CH
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Antimony	29 N	(70 - 115)		SW846 6010B	09/02/05	HJTW11CJ
	28 N	(70 - 115) 1.2	(0-25)	SW846 6010B	09/02/05	HJTW11CK
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Barium	95	(80 - 115)		SW846 6010B	09/02/05	HJTW11CL
	93	(80 - 115) 0.86	(0-25)	SW846 6010B	09/02/05	HJTW11CM
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Cadmium	80	(80 - 120)		SW846 6010B	09/02/05	HJTW11CN
	83	(80 - 120) 2.8	(0-25)	SW846 6010B	09/02/05	HJTW11CP
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Chromium	96	(85 - 120)		SW846 6010B	09/02/05	HJTW11CQ
	96	(85 - 120) 0.32	(0-25)	SW846 6010B	09/02/05	HJTW11CR
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Beryllium	95	(80 - 120)		SW846 6010B	09/02/05	HJTW11CT
	94	(80 - 120) 0.57	(0-25)	SW846 6010B	09/02/05	HJTW11CU
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SO

Date Sampled....: 09/01/05 11:35 **Date Received...:** 09/01/05 14:50

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
Lead	89	(75 - 115)		SW846 6010B	09/02/05	HJTW11CV
	90	(75 - 115) 0.78 (0-25)	0.78 (0-25)	SW846 6010B	09/02/05	HJTW11CW
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Selenium	90	(70 - 110)		SW846 6010B	09/02/05	HJTW11CX
	91	(70 - 110) 0.27 (0-25)	0.27 (0-25)	SW846 6010B	09/02/05	HJTW11CO
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Silver	89	(75 - 120)		SW846 6010B	09/02/05	HJTW11C1
	90	(75 - 120) 1.0 (0-25)	1.0 (0-25)	SW846 6010B	09/02/05	HJTW11C2
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Cobalt	88	(80 - 120)		SW846 6010B	09/02/05	HJTW11C3
	87	(80 - 120) 0.14 (0-25)	0.14 (0-25)	SW846 6010B	09/02/05	HJTW11C4
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Copper	107	(80 - 120)		SW846 6010B	09/02/05	HJTW11C5
	105	(80 - 120) 1.2 (0-25)	1.2 (0-25)	SW846 6010B	09/02/05	HJTW11C6
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Molybdenum	91	(80 - 120)		SW846 6010B	09/02/05	HJTW11C7
	90	(80 - 120) 0.48 (0-25)	0.48 (0-25)	SW846 6010B	09/02/05	HJTW11C8
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Nickel	88	(80 - 120)		SW846 6010B	09/02/05	HJTW11C9
	87	(80 - 120) 0.47 (0-25)	0.47 (0-25)	SW846 6010B	09/02/05	HJTW11DA
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SO

Date Sampled...: 09/01/05 11:35 **Date Received...:** 09/01/05 14:50

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
Thallium	85	(70 - 120)		SW846 6010B	09/02/05	HJTW11DC
	85	(70 - 120) 0.50 (0-25)	0.50 (0-25)	SW846 6010B	09/02/05	HJTW11DD
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Vanadium	96	(80 - 120)		SW846 6010B	09/02/05	HJTW11DE
	93	(80 - 120) 1.4 (0-25)	1.4 (0-25)	SW846 6010B	09/02/05	HJTW11DF
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				
Zinc	100	(80 - 120)		SW846 6010B	09/02/05	HJTW11DG
	99	(80 - 120) 0.49 (0-25)	0.49 (0-25)	SW846 6010B	09/02/05	HJTW11DH
		Dilution Factor: 1				
		Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
		MS Run #.....: 5245301				

MS Lot-Sample #: E5I020131-001 **Prep Batch #....:** 5245251

Mercury	99	(80 - 120)	SW846 7471A	09/06/05	HJTW11DJ
	94	(80 - 120) 4.1 (0-20)	SW846 7471A	09/06/05	HJTW11DK
		Dilution Factor: 1			
		Analysis Time...: 15:25		Instrument ID...: M04	Analyst ID.....: 000023
		MS Run #.....: 5249259			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #....: E5I020131

Matrix.....: SO

Date Sampled....: 09/01/05 11:35 **Date Received...:** 09/01/05 14:50

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			PREPARATION- ANALYSIS	WORK ORDER #
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD		
MS Lot-Sample #: E5I020131-001 Prep Batch #....: 5245202								
Aluminum								
	16800	200	18100	mg/kg			SW846 6010B	09/02/05 HJTW11CE
			Qualifiers: NC					
	16800	200	17700	mg/kg			SW846 6010B	09/02/05 HJTW11CF
			Qualifiers: NC					
			Dilution Factor: 1					
			Analysis Time...: 22:19			Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....: 5245301					
Arsenic								
	6.8	200	200	mg/kg	97		SW846 6010B	09/02/05 HJTW11CG
	6.8	200	201	mg/kg	97	0.15	SW846 6010B	09/02/05 HJTW11CH
			Dilution Factor: 1					
			Analysis Time...: 22:19			Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....: 5245301					
Antimony								
	0.73	50.0	15.0 N	mg/kg	29		SW846 6010B	09/02/05 HJTW11CJ
	0.73	50.0	14.8 N	mg/kg	28	1.2	SW846 6010B	09/02/05 HJTW11CK
			Dilution Factor: 1					
			Analysis Time...: 22:19			Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....: 5245301					
Barium								
	131	200	320	mg/kg	95		SW846 6010B	09/02/05 HJTW11CL
	131	200	318	mg/kg	93	0.86	SW846 6010B	09/02/05 HJTW11CM
			Dilution Factor: 1					
			Analysis Time...: 22:19			Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....: 5245301					
Cadmium								
	ND	5.00	4.02	mg/kg	80		SW846 6010B	09/02/05 HJTW11CM
	ND	5.00	4.13	mg/kg	83	2.8	SW846 6010B	09/02/05 HJTW11CP
			Dilution Factor: 1					
			Analysis Time...: 22:19			Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....: 5245301					
Chromium								
	27.3	20.0	46.6	mg/kg	96		SW846 6010B	09/02/05 HJTW11CQ
	27.3	20.0	46.5	mg/kg	96	0.32	SW846 6010B	09/02/05 HJTW11CR
			Dilution Factor: 1					
			Analysis Time...: 22:19			Instrument ID...: M01		Analyst ID.....: 021088
			MS Run #.....: 5245301					

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: E5I020131

Matrix.....: SO

Date Sampled...: 09/01/05 11:35 Date Received...: 09/01/05 14:50

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Beryllium									
	0.68	5.00	5.41	mg/kg	95		SW846 6010B	09/02/05	HJTW11CT
	0.68	5.00	5.38	mg/kg	94	0.57	SW846 6010B	09/02/05	HJTW11CU
Dilution Factor: 1									
					Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
					MS Run #.....: 5245301				
Lead									
	7.2	50.0	51.8	mg/kg	89		SW846 6010B	09/02/05	HJTW11CV
	7.2	50.0	52.3	mg/kg	90	0.78	SW846 6010B	09/02/05	HJTW11CW
Dilution Factor: 1									
					Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
					MS Run #.....: 5245301				
Selenium									
	1.8	200	183	mg/kg	90		SW846 6010B	09/02/05	HJTW11CX
	1.8	200	183	mg/kg	91	0.27	SW846 6010B	09/02/05	HJTW11CO
Dilution Factor: 1									
					Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
					MS Run #.....: 5245301				
Silver									
	ND	5.00	4.47	mg/kg	89		SW846 6010B	09/02/05	HJTW11C1
	ND	5.00	4.52	mg/kg	90	1.0	SW846 6010B	09/02/05	HJTW11C2
Dilution Factor: 1									
					Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
					MS Run #.....: 5245301				
Cobalt									
	10.7	50.0	54.5	mg/kg	88		SW846 6010B	09/02/05	HJTW11C3
	10.7	50.0	54.4	mg/kg	87	0.14	SW846 6010B	09/02/05	HJTW11C4
Dilution Factor: 1									
					Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
					MS Run #.....: 5245301				
Copper									
	23.4	25.0	50.2	mg/kg	107		SW846 6010B	09/02/05	HJTW11C5
	23.4	25.0	49.6	mg/kg	105	1.2	SW846 6010B	09/02/05	HJTW11C6
Dilution Factor: 1									
					Analysis Time...: 22:19		Instrument ID...: M01		Analyst ID.....: 021088
					MS Run #.....: 5245301				

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: E5I020131

Matrix.....: SO

Date Sampled....: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

PARAMETER	PERCENT	RECOVERY	METHOD	PREPARATION-	PREP
	<u>RECOVERY</u>	<u>LIMITS</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Hexavalent Chromium		Work Order #....: HJTW11A5		MS Lot-Sample #:	
	106	(80 - 120) SW846 7199		09/02/05	5245157
		Dilution Factor: 5	Analysis Time...: 10:55		Instrument ID...: W18
		Analyst ID.....: 000022			
		MS Run #.....: 5245099			
Hexavalent Chromium		Work Order #....: HJTW11A7		MS Lot-Sample #:	
	99	(80 - 120) SW846 7199		09/02/05	5245157
		Dilution Factor: 100	Analysis Time...: 10:55		Instrument ID...: W18
		Analyst ID.....: 000022			
		MS Run #.....: 5245099			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #....: E5I020131

Matrix.....: SO

Date Sampled....: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

<u>PARAMETER</u>	SAMPLE	SPIKE	MEASURED	PERCENT		PREPARATION-	PREP	
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	METHOD	ANALYSIS DATE	BATCH #
Hexavalent Chromium				Work Order #....:	HJTW11A5	MS	Lot-Sample #:	E5I020131-001
	0.20	40.0	42.7	mg/kg	106	SW846 7199	09/02/05	5245157
			Dilution Factor: 5			Analysis Time...: 10:55		Instrument ID...: W18
			Analyst ID.....: 000022					
			MS Run #.....: 5245099					
Hexavalent Chromium				Work Order #....:	HJTW11A7	MS	Lot-Sample #:	E5I020131-001
	0.20	669	663	mg/kg	99	SW846 7199	09/02/05	5245157
			Dilution Factor: 100			Analysis Time...: 10:55		Instrument ID...: W18
			Analyst ID.....: 000022					
			MS Run #.....: 5245099					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: E5I020131

Work Order #....: HJTW1-SMP

HJTW1-DUP

Matrix.....: SO

Date Sampled....: 09/01/05 11:35 **Date Received..:** 09/01/05 14:50

<u>PARAM</u>	<u>RESULT</u>	<u>DUPPLICATE</u>	<u>RPD</u>			<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Hexavalent Chromium						SD Lot-Sample #:	E5I020131-001	
0.20 B	ND	mg/kg	3.1	(0-20)	SW846 7199		09/02/05	5245157
		Dilution Factor: 1			Analysis Time...: 10:55		Analyst ID.....: 000022	
		Instrument ID...: W18			MS Run Number...: 5245099			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.